BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work: Improvements to Road and Drains From NH 7 to to Jakkur Kaval Road in Ward No.7, Kodigehalli Sub Division

Est Rs.150.00 lakhs

Sl. No	Description of Item	unit	No	L	B	D	Qnty	Rate	Amount
1	2	3	4	5	6	7	8	9	10
1	KSRRB 200-8. Cleaning and grubbing								
	road land including uprooting rank								
	vegetation, grass, brush, shrubs,								
	saplings and trees of girth upto300mm								
	by manual means, in area of thorney								
	jungle, removal of stumps, disposal of								
	unserviceable materials, stacking of								
	serviceble materials within a lead of								
	100 metres from road boundary,								
	labour charges complete as per								
	specifications.								
	MORTH Chapter 2	Sqm							
	P. NO 120 I. NO 18.12								
			2	790.00	2.50		3950.00	6.48	25596.00
	Basic rate	6.00							
	AW8%	0.48							
		6.48							
2	Earthwork excavation for foundation of buildings, drains, Culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m.and above in width, in **hard soil** not exceeding 1.5m.in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.								
	(P.No.5, I No 2.4 of KPWP & IWTD SR 2010-11)	Cum							
	CC Drains								
	S Side		1	655.00	1.00	1.00	655.00		
	N Side		1	790.00	1.00	1.00	790.00		
	For shoulder drains		50	2.50	0.90	0.30	33.75		
	Basic rate	180.00					1478.75	194.40	287,469.00
	AW 8%	14.40							
		194.40							

Sl. No	Description of Item	unit	No	L	B	D	Qnty	Rate	Amount
1	2	3	4	5	6	7	8	9	10
3	Providing and laying in position plain cement concrete of mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2								
	P.12 I No 4.3	Cum							
	CC drain S Side		1	655.00	0.90	0.15	88.43		
	N Side		1	790.00	0.90	0.15	106.65		
	For kerb stone bottom		1x2	790.00	0.20	0.10	31.60		
	For shoulder drains		50	2.50	0.90	0.15	16.88		
	Basic rate	3101.00					243.55	3500.28	852,493.19
	Dif in cost of cement 3.50x40	140.00							
	AW 8%	259.28							
		3500.28							
4	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2								
	P.14 I No 4.31	Sqm							
	Drain Side walls		4x1	1445.00		1.00	5780.00		
	(N Side + S Side)=790.00+655=1445.00						5780.00	199.80	1,154,844.00
	Basic rate	185.00							
	AW 8%	14.80							
		199.80							
5	KSRB 4.2.2 : Providing and laying in								
	position reinforced cement concrete of								
	nominal mix 1:1.5:3 with 20mm and								
	downsize graded granite metal, machine								
	mixed, concrete laid in layers not								
	exceeding 15cns thick ,vibrated for all								
	works in foundation plinth and ground								
	floor level for roof slabs, staircase, lintels,								
	retainingwalls,return walls, walls (any								
	thickness) including attached pilasters,								
	columns,piers,abutments,pillars,posts								
	struts, buttresses, string or lacing courses,								
	parapets,coping, bed blocks, anchor blocks								
	plain window cills , filletsetc., including								
	cost of all materials ,labour, HOM of								
	machinery, curing complete as per								
	specifications.(excluding cost of steel,								
	fabrication and plastering)								
	Specification NO KBS4.1, 4.6								

Sl. No	Description of Item	unit	No	L	B	D	Qnty	Rate	Amount
1	2	3	4	5	6	7	8	9	10
	P No 12 I No 4.11	Cum							
	Drain bottom slab		1	1445.00	0.80	0.10	115.60		
	Drain sidewalls		2	1445.00	0.10	0.90	260.10		
							375.70	5247.72	1971568.00
	Basic rate	4539.00							
	Dif in cost of cement 8.00x40	320.00							
	AW 8%	388.72							
	Total	5247.72							
6	KSRB 4.9.2 : Providing H.Y.S.D. steel (Cold, Twisted) reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3								
	P.16 I No 4.46	Qntl							
	For Drain								
	Considering 70kg / Cum of RCC qnty		375.70	70.00			26299.00		
				OR Say 263.00 Qtl.			263.00	5838.48	1535520.24
	Basic rate	5406.00							
	AW 8%	432.48							
		5838.48							
7	KSRB 5-14: Providing and constructing								
	precast concrete solid blocks with								
	cmpressive strength not less than								
	35kg/sqm with cement mortar 1:4								
	masonry (quoin, jamb, closer blocks)								
	with solid concreteblocks of size								
	40x20x20cms confirming to I.S :2185/								
	1965 in superstructure including cost								
	of materials, labour charges,								
	scaffolding, curing complete as per								
	specifications.	Sqm							
	P.NO 24 I. NO 5.27								
			2x50	2.50		0.2+0.4/2	75.00	632.88	47466.00
	Basic rate	586.00							
	AW8%	46.88							
		632.88							

Sl. No	Description of Item	unit	No	L	B	D	Qnty	Rate	Amount
1	2	3	4	5	6	7	8	9	10
8	KSRB 15.1.1 Providing flush pointing								
	to square rubble,course or uncoursed								
	stone masonry with cement mortar								
	1:3 , 20mm deep, after raking joints to								
	depth of 20mm nicely lining,including								
	cost of materials, labour, curing								
	complete as per specifications.	Sqm							
	P.NO 97 I. NO 15.1								
			2x50	2.50		0.4+0.2/2	75.00	66.42	4981.50
	Basic rate	61.50							
	AW8%	4.92							
		66.42							
9	RCC Precast covering Slab for darin (10cm thick)	Sqm							
	Data Rates Aproved south Zone								
			1	745.00	1.00		745.00		
	For Shoulder Drain		50	2.50	1.00		125.00		
							870.00	1245.00	1,083,150.00
10	Providing and fixing pre cast solid								
	cement concrete kerb stones made								
	out of C.C. 1:2:4 andfinished with								
	CM 1:3 plastering and finishing								
	cutting, etc., complete								
	of size 450x200x400mm								
	P.24 I NO 5.29.1	NO							
			2	790.00			1580.00		
				1580/0.45			3511.11	259.20	910,080.00
	Basic rate	240.00							
	AW8%	19.20							
		259.20							
11	KSRB 2.5 : Earthwork excavation (in								
	deposited soil) and filling sides of								
	foundation upto plinth in layers not								
	exceeding20cms. In depth,compacting								
	each deposited layer by ramming								
	after watering with lead upto 1.5m .								
	including cost of all labour complete								
	as per specifications. Specification.NO								
	KBS 2.9.9/2.9.10.1/2.1.1	cum							
	P.NO 6 I. NO 2.12								
	For Footpath Filling		2	790.00	2.25	0.30	3555.00	174.96	621982.80
	Basic rate	162.00							
	AW8%	12.96							
		174.96							

Sl. No	Description of Item	unit	No	L	B	D	Qnty	Rate	Amount
1	2	3	4	5	6	7	8	9	10
12	Providing and fixing M.S greatings								
	as per detailed specifications as per								
	directions of Engineer in charge	Nos							
			50				50.00	800.00	40000.00
13	KSRRB M300-44: **Scarifying top bituminous surface** or surface dressing or premix carpet including picking up scarified materials, stacking of old serviceable materials within a lead of 100 metres by manual means including cost of all labour charges complete as per specifications. MORTH Chapter 3.								
	P.132 I No 19.50	Sqm							
			1	300.00	11.50		3450.00	17.28	59616.00
	Basic rate	16.00							
	AW 8%	1.28							
		17.28							
14	KSRRB M300-2 : Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.MORTH Chapter 3.								
	P.126 I No 19.2	Cum							
			1	435.00	11.50	0.15	750.38	77.76	58349.00
		72.00							
	AW 8%	5.76							
		77.76							
15	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base /base course on well prepared surface and compacting with vibratory rolle to achieve the desired density								
	P.143 I No 20.18	Cum							
			1	255.00	11.50	0.10	293.25		
			1	180.00	11.50	0.30	621.00		
							914.25	1061.64	970604.37
	Basic rate	983.00							
	AW 8%	78.64							
		1061.64							

Sl. No	Description of Item	unit	No	L	B	D	Qnty	Rate	Amount
1	2	3	4	5	6	7	8	9	10
16	Providing and applying primer coat from 7.5 tgo 9.8Kg per 10sqm for surfaces of low and mediam porosity respactively over prepared surface of granular base with cutback M.C. 70 or any other bitumen mixed with deisel at 10Kg per 10sqm heated in bitumen boiler fitted with spray set(excluding cleaning of road surface) incluing cost of all materials labour HOM of machinaries complet as per specifications								
	P.No.148, I.No.21.4	Sqm							
			1	435.00	11.50		5002.50		
							5002.50	74.38	372083.95
	Basic rate	68.87							
	AW 8%	5.51							
		74.38							
17	KSRRB 500-7: Providing and applying tack coat on the prepared black toped surfaces at 5kg per 10 sqm heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including of cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5.								
	P.No.149, I.No.21.7	Sqm							
			2	790.00	11.50		18170.00		
							18170.00	26.38	479,324.60
	Basic rate	24.43							
	AW 8%	1.95							
		26.38							
18	KSRRB M500-13: Providing and laying bituminous macadam 50mm thick with 100-120 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder, transported to site, laid over a previously prepared surface with paver finisher to the required gade, level and alignment and rolled as per Clauses 503.6 and 501.7 to achieve the desired compaction complete as per speiications. MORTH Specification N.504								
	P.No.150, I.No.21.13	Cum							
			1	790.00	11.50	0.05	454.25		
							454.25	5575.17	2532520.97
	Basic rate	5162.19							
	AW 8%	412.98							
		5575.17							

Sl. No	Description of Item	unit	No	L	B	D	Qnty	Rate	Amount
1	2	3	4	5	6	7	8	9	10
19	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25 mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor conrol to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.8 complete in all respects complete as per specifications. **with 80/100 grade bitumen**								
	P.No.151, I.No.21.20.1	Cum							
			1	790.00	11.50	0.025	227.13		
							227.13	7213.57	1638382.00
	Basic rate	6679.23							
	AW 8%	534.34							
		7213.57							
20	KSRRB M800-13. Road Marking with								
	Hot Applied Thermoplastic								
	Compound with Reflectrising Glass								
	Beads on Bituminous Surface:-								
	Providing and laying of hot applied								
	thermoplastic compound 2.5mm								
	thick including reflectorising glass								
	beads at 250 gms per sqm area,								
	thickness of 2.5mm is exclusive of								
	surface applied glass beads streaks								
	and holes complete as per								
	specifications								
	MORTH Specification no. 803								
	P.NO 168 S.I NO 24.15	Sqm							
			4	790.00	0.10		316.00	428.76	135488.16
	Basic rate	397.00							
	AW 8%	31.76							
		428.76							
21	KSRRB 800-1. Painting two coats after								
	filling the surface with synthetic								
	enamel paint in approved shades on								
	new plastered concrete surfaces,								
	with materials, labour complete as								
	per specifications,								
	MORTH Chapter8								
	P.NO 166 SI. NO 24.0	Sqm							
			2	790.00	0.45		711.00	45.90	32634.9
	Basic rate	42.5							
	AW 8%	3.4							
		45.9							

Sl. No	Description of Item	unit	No	L	B	D	Qnty	Rate	Amount
1	2	3	4	5	6	7	8	9	10
22	Conveying Debris/earth upto a lead of 10Kms	Cum/ Km							
	Qnty Vide Item No 2 & 14						2229.13	81.01	180581.42
23	Misscellaneous								5263.90
								Total Rs.	15,000,000.00

Technical Sanction for Rs. 150 lakhs only
One hundred Fifty lakhs only
under P 2019 Major Road/Arterial/
Sub-Arterial Road division
Total Rs.One hundred Fifty Lakhs only
registered as CE No. YNC/CE/TS/76/11-12 Subject
to Conditions contained in enclosed memo
No. ...../...Dt.....
AE/JE TA SE (BTP) CE (BTP)

Certficate:-

1. The workspot has been inspected and the work is found to be necessary
2. The estimate is prepared as per the PWP&IWTD SR 2010-11
3. The Provision made in estimate are adequate and essential.
4. The area comes under BBMP limits
5. This work is included in P.O.W for the year 2010-11

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub-Division
BBMP, Bangalore

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore

ADMINISTRATIVELY SANCTIONED FOR Rs. 150.00 Lakhs
Rupees One hundred Fifty lakhs only
Under P-2019 Major Roads
Registered as E E ( ) No. 71 9 9
Subject to conditions contained in
enclosed memo EE ( ) No...../9/
Dt. 23-9-11 Estimate A/Sanctioned
No. 71
dated 23-9-11 Rs. 150.00 lakhs

Joint Commissioner
(Byatarayanapura)